

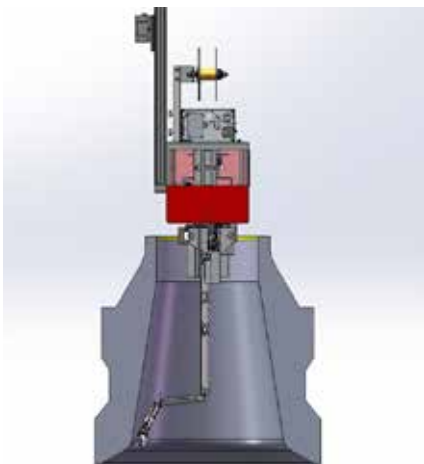
Model 44

INSIDE DIAMETER PIPE WELD HEAD



INDUSTRY

- Nuclear
- Power Generator
- Shipyard
- Offshore
- Oil and Gas



INSIDE DIAMETER PIPE WELD HEAD

THE WIDEST RANGE OF ORBITAL WELDING EQUIPMENT IN THE WORLD

Model 44 is a rugged inside diameter welding head for ID cladding of welding of pipe joints. This weld head was initially designed for remote controlled resurfacing welds on power generation valve seats, but has found uses in the petrol-chemical industries as well.

The Model 44 can be fitted with a variety of GTAW torches with wire feed capability, all with AMI's advanced digital camera technology for remote viewing of the weld. The Model 44 is designed with a slip-ring and rotary union for unlimited rotation capability, without the worry of wrapping up cables.

The torch and camera assemblies used on the Model 44 are water-cooled to withstand the pre-heat and welding temperatures associated with this welding. The design of the Model 44 allows this weld head to perform long duration welds, typically stopping only for changing out of the wire or shift changes.

FEATURES

- Servo controlled, encoder feedback rotation
- Servo controlled, encoder feedback AVC Slide
- Servo controlled, encoder feedback Axial Slide - which can be setup for spiral welding, step-over welding, and oscillation if desired
- AVC and Axial slide can be interchange allowing for buttering on horizontal surfaces
- Servo controlled, synchronized wire feed
- The axial slide can be controlled for operator torch steering for adjustment during the weld
- Remote controlled motorized wire manipulator to maintain wire position during the weld
- Water-Cooled torch and camera for pre-heat conditions
- Final ID range from 2.2" to 30" (50 to 762 mm) based on torch selection
- Modular design allowing for 1 man to setup in confined areas

Visit arcmachines.com for more information.

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QUICK SPECS	
AVC slide stroke	Approx. 4" (100 mm)
Axial slide stroke	Approx. 5.5" (140 mm)
Rotation Speed	0.02 to 0.77 RPM
Wire Feed Speed	5 to 200 IPM (0.13 to 2.5 m/min)
Tungsten Size	Based on Torch selection
Filler Wire Diameter	0.030" or 0.035" is standard
ID Range	55 mm to 762 mm (2.2" to 30") based on torch selection
Weld current capacity	200 to 300 amps, based on torch selection

OPTIONAL HARDWARE

- Vertical & Horizontal lift kit
- 30 lbs / 15 kg wire spool kit
- Torch extension kit to access joints that are deeper into the part
- Custom torch designs available
- Digital viewing system package

4 Torch Designs:

- 75 mm torch with 45 deg tungsten tilt - for cladding - 250 amp
- 75 mm torch with 90 deg tungsten tilt - for weld joints - 250 amp
- 55 mm torch for cladding - 200 amp
- Straight barrel torch for buttering applications - 300 amp
- Custom designed torches available



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